

What is claimed is:

1. A lamp current control circuit applied in a high voltage
outputting combination for providing uniformity of lamp
current of at least one load, the high voltage outputting
5 combination including a control unit providing voltage
distribution signals, driving units to receive the voltage
distributing signals to convert a voltage into high voltage
outputting ends, voltage step-up units, and the load connected
to the high voltage outputting ends, the lamp current control
10 circuit characterized in that:

the lamp current control circuit is disposed between the
high voltage outputting ends of the voltage step-up unit and the
control unit for redistributing high power signals as low power
signals, processing the low power signals, outputting a
15 compensation power signal to the control unit, and then
processing the redistribution of voltage.

2. The lamp current control circuit according to claim 1,
comprising:

at least two voltage dividing units being a voltage dividing
20 circuit consisting of a plurality of impedance elements disposed
at the high voltage outputs of the voltage step-up units; and

a signal processing unit receiving the lower power signals
distributed by the voltage dividing units, comparing the lower
power signals with each other, and then outputting the
25 compensation power signal to the control unit.

3. The lamp current control circuit according to claim 2, wherein the signal-processing unit is compared with a variable unit provided with a reference power signal in advance.
4. The lamp current control circuit according to claim 3, wherein
5 the signal-processing unit is a voltage differential amplifier.
5. The lamp current control circuit according to claim 3, wherein the signal-processing unit is a full-wave rectifier.
6. The lamp current control circuit according to claim 3, wherein the variable unit is a variable resistor.
- 10 7. The lamp current control circuit according to claim 2, wherein the control unit including an error amplifier receives and compares the compensation reference power signals and , outputting a comparison power signal; a phase driving circuit receiving the comparison power signal; and a voltage control
15 oscillator outputting a resonant frequency.
8. The lamp current control circuit according to claim 1, wherein the load is a lamp with a long dimension.
9. The lamp current control circuit according to claim 1, wherein the loads are two lamps with a short dimension.

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